

## **EDGE SMOOTHING FILTER FOR CHARACTER RECOGNITION**

### **ABSTRACT OF THE INVENTION**

A system and method for correcting defects in a black white image. An edge smoothing filter is disclosed that comprises: a system for selecting a block of pixels comprising one center pixel and eight exterior pixels; and an algorithm that examines the block of pixels, wherein the algorithm overwrites the value of the center pixel if: all three pixels along a first edge share a first value; and all three pixels along an opposing edge share a second value that is opposite of the first value; and the two exterior pixels residing between the first and second edge share a common value.